

Application No. 10/649,012
Reply to Notice of Non-Compliant Amendment of February 13, 2006

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A hydrocarbon sensor comprising a substrate made of a solid electrolyte that conducts protons, and a pair of electrodes formed on the substrate, wherein at least one electrode of the pair of electrodes contains Au and Al, [and] assuming that a content of elemental [an] Al [simple substance] in the at least one electrode is "a" mol%, and a content of aluminum oxide in the at least one electrode is "b" mol%, "a" and "b" satisfy a relationship: $a + 2b \leq 7$, and
the at least one electrode contains at least one metal selected from the group consisting of an AuAl₂ alloy and elemental Au, wherein the total mol% of the metals selected from the group is at least 50 mol%.
2. (Canceled)
3. (Currently Amended) A hydrocarbon sensor according to claim [2] 1, wherein the at least one electrode contains AuAl₂ and [an] elemental Au [simple substance] in a molar ratio of AuAl₂ : Au = X : 1-X, where $0.6 \leq X \leq 1$.
- 4-12. (Canceled)